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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/700,602	09/700,602 01/19/2001		Teruo Okano	PK9857	8090
26171	7590	03/26/2003			
FISH & RICHARDSON P.C.				EXAMINER	
1425 K STREET, N.W. 11TH FLOOR				THERKORN,	ERNEST G
WASHINGTON, DC 20005-3500		20005-3500		ART UNIT	PAPER NUMBER
				1723	111
				DATE MAILED: 03/26/2003	14

Please find below and/or attached an Office communication concerning this application or proceeding.

			01
•	Application No.	Applicant(s)	
Office Action Summary	09/700,602	OKANO	
omeo Action Califfication	Examiner	Art Unit	
	THERKORN	1723	
The MAILING DATE of this communication appears Period for Reply	on the cover sheet wit	h the correspondence addre	SS
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the lift NO period for reply is specified above, the maximum statutory period will apply. - Failure to reply within the set or extended period for reply will, by statute, cause to any reply received by the Office later than three months after the mailing date of earned patent term adjustment. See 37 CFR 1.704(b).	n no event, however, may a rept the statutory minimum of thirty and will expire SIX (6) MONTHS the application to become ABAN	y be timely filed after SIX (6) MONTH (30) days will be considered timely. If from the mailing date of this commu (DONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on	ech 3, 2003		
4 _1	tion is non-final.		
3) Since this application is in condition for allowance closed in accordance with the practice under Ex pa			e merits is
Disposition of Claims			
4) X Claim(s) /		is/are pending in the	application.
4a) Of the above, claim(s)		is/are withdrawn fro	om consideration.
5)		is/are allowed.	
6) Claim(s) 1-1/			
7) Claim(s)			to.
8) Claims			
Application Papers	-		
9) \square The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are	e a) \square accepted or b	\square objected to by the Exa	ıminer.
Applicant may not request that any objection to the o	drawing(s) be held in ab	eyance. See 37 CFR 1.85(a).
11) The proposed drawing correction filed on	is: a) 🗌	approved b)□ disapprove	ed by the Examiner.
If approved, corrected drawings are required in reply			
12) The oath or declaration is objected to by the Exam	iner.		
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign p			
13) ☐ Acknowledgement is made of a claim for foreign p a) ☐ All b) ☐ Some* c) ☐ None of:	riority under 35 U.S.C	3. 3 119(a)-(d) or (f).	
1. Certified copies of the priority documents have	re heen received		
2. Certified copies of the priority documents have		unlication No	
3. Copies of the certified copies of the priority d			tage .
application from the International Bure *See the attached detailed Office action for a list of the	au (PCT Rule 17.2(a))	•	lage
14) Acknowledgement is made of a claim for domestic	priority under 35 U.S	.C. § 119(e).	
a) The translation of the foreign language provisional			
15) Acknowledgement is made of a claim for domestic	priority under 35 U.S	.C. §§ 120 and/or 121.	
Attachment(s)	_		
1) Notice of References Cited (PTO-892)	4) Interview Summary (P	FO-413) Paper No(s).	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Pate	nt Application (PTO-152)	,
Information Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:		· .

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James (marke

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-11 are rejected under 35 U.S.C. 102(B) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Japan Patent No. 7-318,551 (including the translation supplied by the examiner in the office action of June 24, 2001). The claims are considered to read on Japan Patent No. 7-318,551. However, if a difference exists between the claims and Japan Patent No. 7-318,551, it would reside in optimizing the steps of Japan Patent No. 7-318,551. It would have been obvious to optimize the steps of Japan Patent No. 7-318,551 to enhance separation.

The remarks urge that the recited stationary phase is not disclosed in Japan Patent No. 7-318,551. However, applicants' claims 5 and 6 are directed to a poly (N-isopropylacrylamide) having amino, carboxyl, or hydroxyl groups. Poly (N-isopropylacrylamide) having amino, carboxyl, or hydroxyl groups and changing its hydrophilic-hydrophobic balance in response to temperature is disclosed in paragraph 9 of the translation of Japan Patent No. 7-318,551. Lines 8 Application/Control Number: 09/700,602

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and 9 of paragraph 9 makes it clear that the poly (N-isopropylacrylamide) has been modified with amino, carboxyl, or hydroxyl groups. Accordingly, Japan Patent No. 7-318,551 is considered to disclose the recited stationary phase.

The remarks urge that Japan Patent No. 7-318,551 does not disclose the temperature gradient method. However, the temperature gradient method and the temperature-step gradient method is disclosed in the sentence bridging pages 2 and 3 of the translation of Japan Patent No. 7-318,551. Accordingly, Japan Patent No. 7-318,551 is considered to disclose the temperature gradient method.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this

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final action.

Any inquiry concerning this communication should be directed to E. Therkorn at

telephone number (703) 308-0362.

Ernest G. Therkorn Primary Examiner Art Unit 1723

EGT/12 March 24, 2003